

## CRF Errors Corrected by the STIC Systems Branch

Serial Number: 08/447,118CRF Processing Date: 8/15/95  
Edited by: MB  
Verified by: MB (STIC staff)

- Changed a file from non-ASCII to ASCII
- Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- Edited a format error in the Current Application Data section, specifically:  
See bottom RSL
- Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or  other \_\_\_\_\_
- Added the mandatory heading and subheadings for "Current Application Data". #3
- Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- Changed the spelling of a mandatory field (the headings or subheadings), specifically:
- Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
- Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
- Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- Inserted colons after headings/subheadings. Headings edited included:
- Deleted extra, invalid, headings used by an applicant, specifically:
- Deleted:  non-ASCII "garbage" at the beginning/end of files;  secretary initials/filename at end of file;  
 page numbers throughout text;  other invalid text, such as \_\_\_\_\_
- Inserted mandatory headings, specifically:
- Corrected an obvious error in the response, specifically:
- Edited identifiers where upper case is used but lower case is required, or vice versa.
- Corrected an error in the Number of Sequences field, specifically:
- A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- Other:  
\_\_\_\_\_  
\_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

PAGE: 1

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/447,118**DATE: 08/10/95  
TIME: 08:26:52**INPUT SET: S5462.raw**

**This Raw Listing contains the General Information Section and up to the first 5 pages.**

1                   **SEQUENCE LISTING**  
2  
3       (1)   General Information:  
4  
5       (i)   APPLICANT:  
6               (A) NAME: Burkly, Linda C.  
7               (B) STREET: 34 Winthrop Street  
8               (C) CITY: West Newton  
9               (D) STATE: Massachusetts  
10              (E) COUNTRY: USA  
11              (F) POSTAL CODE (ZIP): 02165  
12  
13              (A) NAME: Biogen, Inc.  
14              (B) STREET: Fourteen Cambridge Center  
15              (C) CITY: Cambridge  
16              (D) STATE: Massachusetts  
17              (E) COUNTRY: USA  
18              (F) POSTAL CODE (ZIP): 02142  
19  
20       (ii)   TITLE OF INVENTION: TREATMENT FOR INSULIN DEPENDENT DIABETES  
21  
22       (iii)   NUMBER OF SEQUENCES: 15  
23  
24       (iv)   COMPUTER READABLE FORM:  
25              (A) MEDIUM TYPE: Floppy disk  
26              (B) COMPUTER: IBM PC compatible  
27              (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
28              (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)  
29  
30       (v)   CURRENT APPLICATION DATA: *g delete*  
31        (A) APPLICATION NUMBER: US 000000 (BGP-151CP) *← add (B) Filing Date:*  
32       (vi)   PRIOR APPLICATION DATA:  
33              (A) APPLICATION NUMBER: PCT/US94/01456  
34              (B) FILING DATE: 09-FEB-1994  
35       (vii)   PRIOR APPLICATION DATA:  
36              (A) APPLICATION NUMBER: US 08/029,330  
37              (B) FILING DATE: 09-FEB-1993  
38  
39  
40       (2)   INFORMATION FOR SEQ ID NO: 1:  
41  
42       (i)   SEQUENCE CHARACTERISTICS:  
43              (A) LENGTH: 360 base pairs  
44              (B) TYPE: nucleic acid  
45              (C) STRANDEDNESS: single  
46              (D) TOPOLOGY: linear

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/447,118**

DATE: 08/10/95  
TIME: 08:26:57

**INPUT SET: S5462.raw**

```

47
48      (ii) MOLECULE TYPE: cDNA
49
50
51      (ix) FEATURE:
52          (A) NAME/KEY: CDS
53          (B) LOCATION: 1..360
54
55      (ix) FEATURE:
56          (A) NAME/KEY: misc_feature
57          (B) LOCATION: 1
58          (D) OTHER INFORMATION:/note= "pBAG159 insert: HP1/2 heavy
59              chain variable region; amino acid 1 is Glu (E) but
60              Gln(Q) may be substituted"
61
62      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
63
64      GTC AAA CTG CAG CAG TCT GGG GCA GAG CTT GTG AAG CCA GGG GCC TCA        48
65      Val Lys Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala Ser
66          1           5           10          15
67
68      GTC AAG TTG TCC TGC ACA GCT TCT GGC TTC AAC ATT AAA GAC ACC TAT        96
69      Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr
70          20          25          30
71
72      ATG CAC TGG GTG AAG CAG AGG CCT GAA CAG GGC CTG GAG TGG ATT GGA        144
73      Met His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile Gly
74          35          40          45
75
76      AGG ATT GAT CCT GCG AGT GGC GAT ACT AAA TAT GAC CCG AAG TTC CAG        192
77      Arg Ile Asp Pro Ala Ser Gly Asp Thr Lys Tyr Asp Pro Lys Phe Gln
78          50          55          60
79
80      GTC AAG GCC ACT ATT ACA GCG GAC ACG TCC TCC AAC ACA GCC TGG CTG        240
81      Val Lys Ala Thr Ile Thr Ala Asp Thr Ser Ser Asn Thr Ala Trp Leu
82          65          70          75          80
83
84      CAG CTC AGC AGC CTG ACA TCT GAG GAC ACT GCC GTC TAC TAC TGT GCA        288
85      Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala
86          85          90          95
87
88      GAC GGA ATG TGG GTA TCA ACG GGA TAT GCT CTG GAC TTC TGG GGC CAA        336
89      Asp Gly Met Trp Val Ser Thr Gly Tyr Ala Leu Asp Phe Trp Gly Gln
90          100         105         110
91
92      GGG ACC ACG GTC ACC GTC TCC TCA
93      Gly Thr Thr Val Thr Val Ser Ser
94          115         120
95
96
97      (2) INFORMATION FOR SEQ ID NO: 2:
98
99      (i) SEQUENCE CHARACTERISTICS:
```

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/447,118**

DATE: 08/10/95  
TIME: 08:27:02

*INPUT SET: S5462.raw*

100 (A) LENGTH: 120 amino acids  
101 (B) TYPE: amino acid  
102 (D) TOPOLOGY: linear  
103  
104 (ii) MOLECULE TYPE: protein  
105 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
106  
107 Val Lys Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala Ser  
108 1 5 10 15  
109  
110 Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr  
111 20 25 30  
112  
113 Met His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile Gly  
114 35 40 45  
115  
116 Arg Ile Asp Pro Ala Ser Gly Asp Thr Lys Tyr Asp Pro Lys Phe Gln  
117 50 55 60  
118  
119 Val Lys Ala Thr Ile Thr Ala Asp Thr Ser Ser Asn Thr Ala Trp Leu  
120 65 70 75 80  
121  
122 Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
123 85 90 95  
124  
125 Asp Gly Met Trp Val Ser Thr Gly Tyr Ala Leu Asp Phe Trp Gly Gln  
126 100 105 110  
127  
128 Gly Thr Thr Val Thr Val Ser Ser  
129 115 120  
130  
131 (2) INFORMATION FOR SEQ ID NO: 3:  
132  
133 (i) SEQUENCE CHARACTERISTICS:  
134 (A) LENGTH: 318 base pairs  
135 (B) TYPE: nucleic acid  
136 (C) STRANDEDNESS: single  
137 (D) TOPOLOGY: linear  
138  
139 (ii) MOLECULE TYPE: cDNA  
140  
141  
142 (ix) FEATURE:  
143 (A) NAME/KEY: CDS  
144 (B) LOCATION: 1..318  
145 (D) OTHER INFORMATION:/product= "HP1/2 light  
146 chain variable region"  
147  
148 (ix) FEATURE:  
149 (A) NAME/KEY: misc\_feature  
150 (B) LOCATION: 1  
151 (D) OTHER INFORMATION:/note= "pBAG172 insert: HP1/2 light  
152 chain variable region"

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/447,118**

DATE: 08/10/95  
TIME: 08:27:08

**INPUT SET: S5462.raw**

153			
154			
155	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:		
156			
157	AGT ATT GTG ATG ACC CAG ACT CCC AAA TTC CTG CTT GTT TCA GCA GGA		48
158	Ser Ile Val Met Thr Gln Thr Pro Lys Phe Leu Leu Val Ser Ala Gly		
159	125	130	135
160			
161	GAC AGG GTT ACC ATA ACC TGC AAG GCC AGT CAG AGT GTG ACT AAT GAT		96
162	Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Thr Asn Asp		
163	140	145	150
164			
165	GTA GCT TGG TAC CAA CAG AAG CCA GGG CAG TCT CCT AAA CTG CTG ATA		144
166	Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile		
167	155	160	165
168			
169	TAT TAT GCA TCC AAT CGC TAC ACT GGA GTC CCT GAT CGC TTC ACT GGC		192
170	Tyr Tyr Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly		
171	170	175	180
172			
173	AGT GGA TAT GGG ACG GAT TTC ACT TTC ACC ATC AGC ACT GTG CAG GCT		240
174	Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Thr Val Gln Ala		
175	185	190	195
176			200
177	GAA GAC CTG GCA GTT TAT TTC TGT CAG CAG GAT TAT AGC TCT CCG TAC		288
178	Glu Asp Leu Ala Val Tyr Phe Cys Gln Gln Asp Tyr Ser Ser Pro Tyr		
179	205	210	215
180			
181	ACG TTC GGA GGG GGG ACC AAG CTG GAG ATC		318
182	Thr Phe Gly Gly Thr Lys Leu Glu Ile		
183	220	225	
184			
185			
186	(2) INFORMATION FOR SEQ ID NO: 4:		
187			
188	(i) SEQUENCE CHARACTERISTICS:		
189	(A) LENGTH: 106 amino acids		
190	(B) TYPE: amino acid		
191	(D) TOPOLOGY: linear		
192			
193	(ii) MOLECULE TYPE: protein		
194	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:		
195			
196	Ser Ile Val Met Thr Gln Thr Pro Lys Phe Leu Leu Val Ser Ala Gly		
197	1	5	10
198			15
199	Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Thr Asn Asp		
200	20	25	30
201			
202	Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile		
203	35	40	45
204			
205	Tyr Tyr Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly		

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/447,118**

DATE: 08/10/95  
TIME: 08:27:13

**INPUT SET: S5462.raw**

206	50	55	60	
207				
208	Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Thr Val Gln Ala			
209	65	70	75	80
210				
211	Glu Asp Leu Ala Val Tyr Phe Cys Gln Gln Asp Tyr Ser Ser Pro Tyr			
212		85	90	95
213				
214	Thr Phe Gly Gly Thr Lys Leu Glu Ile			
215	100	105		
216				

217 (2) INFORMATION FOR SEQ ID NO: 5:

218	(i) SEQUENCE CHARACTERISTICS:
219	(A) LENGTH: 429 base pairs
220	(B) TYPE: nucleic acid
221	(C) STRANDEDNESS: single
222	(D) TOPOLOGY: linear
223	
224	
225	(ii) MOLECULE TYPE: cDNA
226	
227	
228	(ix) FEATURE:
229	(A) NAME/KEY: CDS
230	(B) LOCATION: 1..429
231	
232	(ix) FEATURE:
233	(A) NAME/KEY: sig_peptide
234	(B) LOCATION: 1..57
235	
236	(ix) FEATURE:
237	(A) NAME/KEY: mat_peptide
238	(B) LOCATION: 58..429
239	
240	(ix) FEATURE:
241	(A) NAME/KEY: misc_feature
242	(B) LOCATION: 1
243	(D) OTHER INFORMATION:/note= "pBAG195 insert: AS heavy
244	chain variable region"
245	
246	

247 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

248	ATG GAC TGG ACC TGG AGG GTC TTC TGC TTG CTG GCT GTA GCA CCA GGT Met Asp Trp Thr Trp Arg Val Phe Cys Leu Leu Ala Val Ala Pro Gly -19 -15 -10 -5	48
249		
250		
251		
252		
253	GCC CAC TCC CAG GTC CAA CTG CAG GAG AGC GGT CCA GGT CTT GTG AGA Ala His Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg 1 5 10	96
254		
255		
256		
257	CCT AGC CAG ACC CTG AGC CTG ACC TGC ACC GCG TCT GGC TTC AAC ATT Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Ala Ser Gly Phe Asn Ile	144
258		

**SEQUENCE VERIFICATION REPORT  
PATENT APPLICATION US/08/447,118**DATE: 08/10/95  
TIME: 08:27:18**INPUT SET: S5462.raw**

Line	Error	Original Text
5	Mandatory Value Not Present	(i) APPLICANT:
6	Unknown or Misplaced Identifier	(A) NAME: Burkly, Linda C.
7	Unknown or Misplaced Identifier	(B) STREET: 34 Winthrop Street
8	Unknown or Misplaced Identifier	(C) CITY: West Newton
9	Unknown or Misplaced Identifier	(D) STATE: Massachusetts
10	Unknown or Misplaced Identifier	(E) COUNTRY: USA
11	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 02165
13	Unknown or Misplaced Identifier	(A) NAME: Biogen, Inc.
14	Unknown or Misplaced Identifier	(B) STREET: Fourteen Cambridge Center
15	Unknown or Misplaced Identifier	(C) CITY: Cambridge
16	Unknown or Misplaced Identifier	(D) STATE: Massachusetts
17	Unknown or Misplaced Identifier	(E) COUNTRY: USA
18	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 02142

PAGE: 1

**SEQUENCE MISSING ITEM REPORT  
PATENT APPLICATION US/08/447,118**

DATE: 08/10/95  
TIME: 08:27:20

***INPUT SET: S5462.raw***

ADDRESSEE

STREET

CITY

STATE

COUNTRY

ZIP

CORRESPONDENCE ADDRESS

APPLICATION NUMBER

FILING DATE

CLASSIFICATION

PAGE: 1

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/447,118**DATE: 08/15/95  
TIME: 10:51:37**INPUT SET: S5462.raw**

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

1   SEQUENCE LISTING  
2  
3         (1)    General Information:  
4  
5         (i)    APPLICANT:  
6                 (A) NAME: Burkly, Linda C.  
7                 (B) STREET: 34 Winthrop Street  
8                 (C) CITY: West Newton  
9                 (D) STATE: Massachusetts  
10                (E) COUNTRY: USA  
11                (F) POSTAL CODE (ZIP): 02165  
12  
13                (A) NAME: Biogen, Inc.  
14                (B) STREET: Fourteen Cambridge Center  
15                (C) CITY: Cambridge  
16                (D) STATE: Massachusetts  
17                (E) COUNTRY: USA  
18                (F) POSTAL CODE (ZIP): 02142  
19  
20         (ii)   TITLE OF INVENTION: TREATMENT FOR INSULIN DEPENDENT DIABETES  
21  
22         (iii)   NUMBER OF SEQUENCES: 15  
23  
24         (iv)   COMPUTER READABLE FORM:  
25                (A) MEDIUM TYPE: Floppy disk  
26                (B) COMPUTER: IBM PC compatible  
27                (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
28                (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)  
29  
30         (v)    CURRENT APPLICATION DATA:  
31                (A) APPLICATION NUMBER:  
32         (B) FILING DATE:  
33  
34         (vi)   PRIOR APPLICATION DATA:  
35                (A) APPLICATION NUMBER: PCT/US94/01456  
36                (B) FILING DATE: 09-FEB-1994  
37         (vii)   PRIOR APPLICATION DATA:  
38                (A) APPLICATION NUMBER: US 08/029,330  
39                (B) FILING DATE: 09-FEB-1993  
40  
41  
42         (2)   INFORMATION FOR SEQ ID NO: 1:  
43  
44         (i)    SEQUENCE CHARACTERISTICS:  
45                (A) LENGTH: 360 base pairs  
46                (B) TYPE: nucleic acid**ENTERED**

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/447,118DATE: 08/15/95  
TIME: 10:51:42

INPUT SET: S5462.raw

47 (C) STRANDEDNESS: single  
48 (D) TOPOLOGY: linear  
49  
50 (ii) MOLECULE TYPE: cDNA  
51  
52 (ix) FEATURE:  
53 (A) NAME/KEY: CDS  
54 (B) LOCATION: 1..360  
55  
56 (ix) FEATURE:  
57 (A) NAME/KEY: misc\_feature  
58 (B) LOCATION: 1  
59 (D) OTHER INFORMATION:/note= "pBAG159 insert: HP1/2 heavy  
60 chain variable region; amino acid 1 is Glu (E) but  
61 Gln(Q) may be substituted"  
62  
63 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
64  
65 GTC AAA CTG CAG CAG TCT GGG GCA GAG CTT GTG AAG CCA GGG GCC TCA 48  
66 Val Lys Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala Ser  
67 1 5 10 15  
68  
69 GTC AAG TTG TCC TGC ACA GCT TCT GGC TTC AAC ATT AAA GAC ACC TAT 96  
70 Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr  
71 20 25 30  
72  
73 ATG CAC TGG GTG AAG CAG AGG CCT GAA CAG GGC CTG GAG TGG ATT GGA 144  
74 Met His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile Gly  
75 35 40 45  
76  
77 AGG ATT GAT CCT GCG AGT GGC GAT ACT AAA TAT GAC CCG AAG TTC CAG 192  
78 Arg Ile Asp Pro Ala Ser Gly Asp Thr Lys Tyr Asp Pro Lys Phe Gln  
79 50 55 60  
80  
81 GTC AAG GCC ACT ATT ACA GCG GAC ACG TCC TCC AAC ACA GCC TGG CTG 240  
82 Val Lys Ala Thr Ile Thr Ala Asp Thr Ser Ser Asn Thr Ala Trp Leu  
83 65 70 75 80  
84  
85 CAG CTC AGC AGC CTG ACA TCT GAG GAC ACT GCC GTC TAC TAC TGT GCA 288  
86 Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
87 85 90 95  
88  
89 GAC GGA ATG TGG GTA TCA ACG GGA TAT GCT CTG GAC TTC TGG GGC CAA 336  
90 Asp Gly Met Trp Val Ser Thr Gly Tyr Ala Leu Asp Phe Trp Gly Gln  
91 100 105 110  
92  
93 GGG ACC ACG GTC ACC GTC TCC TCA 360  
94 Gly Thr Thr Val Thr Val Ser Ser  
95 115 120  
96  
97  
98  
99 (2) INFORMATION FOR SEQ ID NO: 2:

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/447,118**

DATE: 08/15/95  
TIME: 10:51:47

**INPUT SET: S5462.raw**

100  
101       (i) SEQUENCE CHARACTERISTICS:  
102           (A) LENGTH: 120 amino acids  
103           (B) TYPE: amino acid  
104           (D) TOPOLOGY: linear  
105  
106       (ii) MOLECULE TYPE: protein  
107       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
108  
109 Val Lys Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala Ser  
110       1                   5                   10                   15  
111  
112 Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr  
113       20                   25                   30  
114  
115 Met His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile Gly  
116       35                   40                   45  
117  
118 Arg Ile Asp Pro Ala Ser Gly Asp Thr Lys Tyr Asp Pro Lys Phe Gln  
119       50                   55                   60  
120  
121 Val Lys Ala Thr Ile Thr Ala Asp Thr Ser Ser Asn Thr Ala Trp Leu  
122       65                   70                   75                   80  
123  
124 Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
125       85                   90                   95  
126  
127 Asp Gly Met Trp Val Ser Thr Gly Tyr Ala Leu Asp Phe Trp Gly Gln  
128       100                  105                  110  
129  
130 Gly Thr Thr Val Thr Val Ser Ser  
131       115                  120  
132  
133 (2) INFORMATION FOR SEQ ID NO: 3:  
134  
135       (i) SEQUENCE CHARACTERISTICS:  
136           (A) LENGTH: 318 base pairs  
137           (B) TYPE: nucleic acid  
138           (C) STRANDEDNESS: single  
139           (D) TOPOLOGY: linear  
140  
141       (ii) MOLECULE TYPE: cDNA  
142  
143  
144       (ix) FEATURE:  
145           (A) NAME/KEY: CDS  
146           (B) LOCATION: 1..318  
147           (D) OTHER INFORMATION:/product= "HP1/2 light  
148                           chain variable region"  
149  
150       (ix) FEATURE:  
151           (A) NAME/KEY: misc\_feature  
152           (B) LOCATION: 1

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/447,118**

DATE: 08/15/95  
TIME: 10:51:52

**INPUT SET: S5462.raw**

153                   (D) OTHER INFORMATION:/note= "pBAG172 insert: HP1/2 light  
154                   chain variable region"  
155  
156  
157                   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
158  
159       AGT ATT GTG ATG ACC CAG ACT CCC AAA TTC CTG CTT GTT TCA GCA GGA           48  
160       Ser Ile Val Met Thr Gln Thr Pro Lys Phe Leu Leu Val Ser Ala Gly  
161                   125                   130                   135  
162  
163       GAC AGG GTT ACC ATA ACC TGC AAG GCC AGT CAG AGT GTG ACT AAT GAT           96  
164       Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Thr Asn Asp  
165                   140                   145                   150  
166  
167       GTA GCT TGG TAC CAA CAG AAG CCA GGG CAG TCT CCT AAA CTG CTG ATA           144  
168       Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile  
169                   155                   160                   165  
170  
171       TAT TAT GCA TCC AAT CGC TAC ACT GGA GTC CCT GAT CGC TTC ACT GGC           192  
172       Tyr Tyr Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly  
173                   170                   175                   180  
174  
175       AGT GGA TAT GGG ACG GAT TTC ACT TTC ACC ATC AGC ACT GTG CAG GCT           240  
176       Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Thr Val Gln Ala  
177                   185                   190                   195                   200  
178  
179       GAA GAC CTG GCA GTT TAT TTC TGT CAG CAG GAT TAT AGC TCT CCG TAC           288  
180       Glu Asp Leu Ala Val Tyr Phe Cys Gln Gln Asp Tyr Ser Ser Pro Tyr  
181                   205                   210                   215  
182  
183       ACG TTC GGA GGG GGG ACC AAG CTG GAG ATC                                   318  
184       Thr Phe Gly Gly Thr Lys Leu Glu Ile  
185                   220                   225  
186  
187  
188                   (2) INFORMATION FOR SEQ ID NO: 4:  
189  
190                   (i) SEQUENCE CHARACTERISTICS:  
191                    (A) LENGTH: 106 amino acids  
192                    (B) TYPE: amino acid  
193                    (D) TOPOLOGY: linear  
194  
195                   (ii) MOLECULE TYPE: protein  
196                   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
197  
198       Ser Ile Val Met Thr Gln Thr Pro Lys Phe Leu Leu Val Ser Ala Gly  
199                   1                   5                   10                   15  
200  
201       Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val Thr Asn Asp  
202                   20                   25                   30  
203  
204       Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile  
205                   35                   40                   45

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/447,118DATE: 08/15/95  
TIME: 10:51:57

INPUT SET: S5462.raw

206  
207 Tyr Tyr Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg Phe Thr Gly  
208 50 55 60  
209  
210 Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Thr Val Gln Ala  
211 65 70 75 80  
212  
213 Glu Asp Leu Ala Val Tyr Phe Cys Gln Gln Asp Tyr Ser Ser Pro Tyr  
214 85 90 95  
215  
216 Thr Phe Gly Gly Thr Lys Leu Glu Ile  
217 100 105  
218  
219 (2) INFORMATION FOR SEQ ID NO: 5:  
220  
221 (i) SEQUENCE CHARACTERISTICS:  
222 (A) LENGTH: 429 base pairs  
223 (B) TYPE: nucleic acid  
224 (C) STRANDEDNESS: single  
225 (D) TOPOLOGY: linear  
226  
227 (ii) MOLECULE TYPE: cDNA  
228  
229  
230 (ix) FEATURE:  
231 (A) NAME/KEY: CDS  
232 (B) LOCATION: 1..429  
233  
234 (ix) FEATURE:  
235 (A) NAME/KEY: sig\_peptide  
236 (B) LOCATION: 1..57  
237  
238 (ix) FEATURE:  
239 (A) NAME/KEY: mat\_peptide  
240 (B) LOCATION: 58..429  
241  
242 (ix) FEATURE:  
243 (A) NAME/KEY: misc\_feature  
244 (B) LOCATION: 1  
245 (D) OTHER INFORMATION:/note= "pBAG195 insert: AS heavy  
246 chain variable region"  
247  
248  
249 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
250  
251 ATG GAC TGG ACC TGG AGG GTC TTC TGC TTG CTG GCT GTA GCA CCA GGT 48  
252 Met Asp Trp Thr Trp Arg Val Phe Cys Leu Leu Ala Val Ala Pro Gly  
253 -19 -15 -10 -5  
254  
255 GCC CAC TCC CAG GTC CAA CTG CAG GAG AGC GGT CCA GGT CTT GTG AGA 96  
256 Ala His Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg  
257 1 5 10  
258

**SEQUENCE VERIFICATION REPORT  
PATENT APPLICATION US/08/447,118**DATE: 08/15/95  
TIME: 10:52:02**INPUT SET: S5462.raw**

Line	Error	Original Text
5	Mandatory Value Not Present	(i) APPLICANT:
6	Unknown or Misplaced Identifier	(A) NAME: Burkly, Linda C.
7	Unknown or Misplaced Identifier	(B) STREET: 34 Winthrop Street
8	Unknown or Misplaced Identifier	(C) CITY: West Newton
9	Unknown or Misplaced Identifier	(D) STATE: Massachusetts
10	Unknown or Misplaced Identifier	(E) COUNTRY: USA
11	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 02165
13	Unknown or Misplaced Identifier	(A) NAME: Biogen, Inc.
14	Unknown or Misplaced Identifier	(B) STREET: Fourteen Cambridge Center
15	Unknown or Misplaced Identifier	(C) CITY: Cambridge
16	Unknown or Misplaced Identifier	(D) STATE: Massachusetts
17	Unknown or Misplaced Identifier	(E) COUNTRY: USA
18	Unknown or Misplaced Identifier	(F) POSTAL CODE (ZIP): 02142